

VOGEL TOOL & DIE

A Division of T-E-S Tube Equipment, Inc.

Tube & Pipe Fabricating Tools, Dies & Equipment

Price List

effective 1//1/2009

**No price
increase
for 2009!**

General Information

- ◆ All prices are F.O.B. West Chicago, Illinois, (a Chicago suburb), unless noted.
- ◆ Vogel Tool & Die standard terms, conditions of sale and warranties apply, see page 10.
- ◆ Terms: Credit Card Charge, C.O.D., 2% 10, net 30 days - subject to credit approval.
- ◆ For your convenience, we accept Visa, MasterCard, & Discover Card or Check-By-Phone
- ◆ Prices subject to change without notice. \$25.00 minimum net billing.
- ◆ Stock products ordered by 3:00pm, Central Time, normally ship the next business day.
- ◆ Same day shipping may be available for stock products, an expedite charge will apply.
- ◆ Deposits, (normally 50% of purchase price), required on all non-stock tooling.
- ◆ U.P.S. shipping on most items. Common carrier of your choice for heavier shipment.
- ◆ The abbreviation P.O.R. represents "Price on Request". Part prints required for quoting.
- ◆ Replacement parts are available for most Vogel tooling, please call for details.
- ◆ Sharpening service is available for most Vogel tooling, please call for details.
- ◆ We specialize in custom designed dies & machines tailored to your specialized applications.

HOURS

[Central Standard Time]

Monday through Thursday: 8:00 am to 5:00 pm

Friday: 8:00 am to 2:00 pm

Telephone: 630-562-1400

Fax: 630-562-1500

Website: vogeltool.com

E-Mail: info@vogeltool.com

Remit To Address:	Mailing & Shipping Address:
T-E-S Tube Equipment, Inc. 756 Hawthorne Lane West Chicago, IL 60185	Vogel Tool & Die 756 Hawthorne Lane West Chicago, IL 60185

ECONO ARC-FITS:

#25 Econo Arc-Fit, (for 1-3/8", 1-5/8", & 2" approx. O.D. light wall fence designation "tubing")	\$525.00
#25A Econo Arc-Fit, (for .840", 1.050", & 1.315" O.D. tubing)	\$630.00

ARC-FIT TUBE & PIPE NOTCHING TOOLING:

#35 Housing, Hand Press, & Accessories

#35 Housing, to fit Vogel Hand, Hydraulic, & Air Presses:	\$240.00
#201-A Punch Press Adaptor, for mounting #35 housing in your punch press:	\$95.00
#1400 Hand Press:	\$495.00
#1405 Hand Press Stand:	\$225.00
#1410 Hitch Mount	\$195.00
#1415 Leg Kit for Hitch Mount	\$95.00

PLEASE SEE PAGE 8 FOR INFORMATION ABOUT POWER PRESS AND OUT TRIPLE-HOUSING TURNTABLE

Pipe Assemblies for #35 Housing, (equal fit-ups, suitable for stainless steel, unless noted)

Schedule 40 pipe: choose from 1/2" or 3/4" or 1" I.D. (suitable for stainless or mild steel)	\$420.00
Schedule 40 pipe: choose from 1-1/4", 1-1/2", or 2" I.D. (suitable for mild steel only)	\$420.00
Schedule 40 pipe: choose from 1-1/4", 1-1/2", or 2" I.D. (suitable for stainless or mild steel)	\$520.00
Choose from 1/2", 3/4", 1", 1-1/4", 1-1/2", or 2", I.D. (specify schedule 5, 10 or 80, suitable for stainless or mild steel)	\$520.00

PLEASE SEE PAGE 10 FOR PART NUMBERS FOR POPULAR ARC-FIT ASSEMBLIES TO FIT THE #35 HOUSING

Tube Assemblies for #35 Housing, (equal fit-ups, all suitable for stainless steel)

Choose from: 3/4", 7/8", 1", 1-1/8", 1-1/4", or 1-3/8" O.D. (specify 18, 16, 14 gauge or 1/8" wall)	\$505.00
Choose from: 1-1/2", 1-5/8", 1-3/4", 1-7/8", 2", or 2-1/4" O.D. (specify 18, 16, 14 gauge or 1/8" wall)	\$575.00

FOR OTHER OD'S OR GAUGES, SEE CUSTOM ASSEMBLIES, BELOW

Custom Assemblies for #35 Housing:

Equal fit-ups, Tube or Pipe sizes not shown above, up to & including 2-3/8" O.D.:	**\$725.00
Unequal Fit-Ups, (one size to fit a different size tube):	**\$845.00
Square tubes notched to fit rounds, up to 2-3/8" square:	**\$1,050.00
Slots In Rounds or Squares, up to 2-3/8" O.D. or square:	**\$1,050.00
Custom Assemblies with Drain Holes:	**\$1,050.00

#75 and Larger Housings & Arc-Fit Tooling:

#75 Housing:	\$950.00
Schedule 40 pipe: 2-1/2" or 3", I.D. equal fit-up assemblies:	\$1,220.00
All other tube and pipe sizes, equal and unequal fit-up assemblies up to 3-1/2" O.D. or square:	**\$1,645.00
Squares to fit rounds, special slots, etc., assemblies up to 3-1/2" O.D. or square:	**\$1,645.00

#125 Housing:	**\$1,315.00
Schedule 40 pipe: 3-1/2" or 4", I.D. equal fit-up assemblies:	**\$1,850.00
All other tube and pipe sizes, equal and unequal fit-up assemblies up to 3-1/2" O.D. or square:	**\$2,255.00
Squares to fit rounds, special slots, etc., assemblies up to 3-1/2" O.D. or square:	**\$2,255.00

#175 Housing:	**\$2,020.00
Schedule 40 pipe: 4-1/2" or 5", I.D. equal fit-up assemblies:	**\$2,550.00
All other tube and pipe sizes, equal and unequal fit-up assemblies up to 3-1/2" O.D. or square:	**\$3,100.00
Squares to fit rounds, special slots, etc., assemblies up to 3-1/2" O.D. or square:	**\$3,100.00

#185 Housing:	**\$2,400.00
Schedule 40 pipe: 6", I.D. equal fit-up assemblies:	**\$3,740.00
All other tube and pipe sizes, equal and unequal fit-up assemblies up to 3-1/2" O.D. or square:	**\$4,600.00
Squares to fit rounds, special slots, etc., assemblies up to 3-1/2" O.D. or square:	**\$4,600.00

****These items are made-to-order, 50% deposit required.
Replacement parts are available on Vogel tooling, please call for pricing.
Sharpening available for your Vogel tooling, please call for details.**

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Prices effective 1/1/2009
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ARC-TWIN TUBE & PIPE NOTCHING TOOLING:

(Catalog page 4)

Arc-Twin Units For Use In Your Press:

Arc-Twin 101-DS Unit, (less tooling for up to 2-3/8" OD or square):	\$4,195.00
Arc-Twin 103-DS Tandem Unit, (less two sets of tooling for up to 2-3/8" OD or square):	\$7,125.00
Arc-Twin 300-DS Unit, (less tooling for up to 3" OD or square):	\$10,150.00
Arc-Twin 500-DS Unit, (less tooling for up to 5" OD or square):	\$16,225.00
Arc-Twin 324-DS Unit, (less tooling for up to 2" x 4" rectangle):	\$10,650.00

Arc-Twin Self-Contained Hydraulic Units:

Arc-Twin 101-HPP Hydraulic Unit, (less tooling for up to 2-3/8" OD or square):	\$10,875.00
Arc-Twin 103-HPP Tandem Unit, (less two sets of tooling for up to 2-3/8" OD or square):	\$15,550.00
Arc-Twin 301-HPP Hydraulic Unit, (less tooling for up to 3" OD or square):	\$18,975.00
Arc-Twin 501-HPP Hydraulic Unit, (less tooling for up to 5" OD or square):	\$24,750.00
Arc-Twin 101-HPP Hydraulic Double End Unit, (less tooling for up to 2-3/8" OD or square):	P.O.R.

Arc-Twin Optional Accessories:

Arc-Twin 110A Locator, (to maintain orientation when notching both tube ends, incl. one post):	\$800.00
Arc-Twin Additional 110A locator posts:	\$100.00

101 Series Pipe Assemblies, (Equal Fit-ups):

Schedule 40 pipe: choose from 3/4", 1", or 1-1/4", 1-1/2", or 2" ID:	\$1,450.00
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101 Series Tube Assemblies, (Equal Fit-ups):

Choose from the following OD's, and specify 18, 16, 14 gauge, or 1/8" wall. OD's: 3/4", 7/8", 1", 1-1/8", 1-1/4", 1-3/8", 1-1/2", 1-5/8", 1-3/4", 1-7/8", 2", or 2-1/4"	\$1,450.00
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[Sizes not listed here can be ordered as a "Custom Assembly", see below]

101 Series Custom Assemblies:

Equal fit-ups, sizes not shown above, up to 2-3/8" O.D. x .154" max wall.	\$1,575.00
Unequal fit-ups, (one size to fit a different size tube):	\$1,725.00
Square tubing, up to 2" square, notched with slots, or to fit round tubing:	\$1,975.00
Special slots in rounds, up to 2-3/8" O.D. x .154" max. wall:	\$1,975.00
Drain Holes, both walls:	\$1,975.00
Drain holes, one wall only, special assembly pricing (Sectional inserts):	\$3,500.00

300 Series Assemblies:

Schedule 40, equal fit-ups, choose from 1-1/2", 2", or 2-1/2" I.D., equal fit-ups:	\$2,275.00
Arc-Twin 300 Adaptor, (to run 100 series assemblies in your 300 series Arc-Twin Unit):	\$2,525.00
All other applications:	\$3,225.00

324 & 500 Series Assemblies:

All applications for 324 & 500 series Arc-Twin equipment:	P.O.R.
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**Most Arc-Twin items are made at time of order, a 50% deposit is required.
Replacement parts are available on Vogel tooling, please call for pricing.
Sharpening available for your Vogel tooling, please call for details.**

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ARC-FIT ANGULAR TOOLING:

(Catalog page 5)

Arc-Fit Angular Housing and Accessories:

#35 Arc-Fit Single-Station Housing [2 required, one per station]	\$240.00 /ea.
#75-A Arc-Fit Angular Two-Station Housing:	\$1,125.00
#85-A Arc-Fit Angular Two-Station Housing:	\$1,595.00
#75-AAS Spanker Bar, required with Vogel CSP-25-SA Hydraulic Power Unit:	\$95.00

Arc-Fit Angular Assemblies to fit (2) #35 Arc-Fit Single-Station Housings:

#15200A 1 st Station Assembly for 1-1/4" x schedule 40 pipe to fit 1-1/4" x 35°	\$1,125.00
#15201A 2 nd Station Assembly for 1-1/4" x schedule 40 pipe to fit 1-1/4" x 35°	\$1,125.00
#15202A 1 st Station Assembly for 1-1/2" x schedule 40 pipe to fit 1-1/4" x 35°	\$1,125.00
#15203A 2 nd Station Assembly for 1-1/2" x schedule 40 pipe to fit 1-1/4" x 35°	\$1,125.00

Arc-Fit Angular Assemblies to fit (1) #75-A Two-Station Housing:

9214A Two-Station Assembly for 1" I.D., schedule 40 pipe for 35 degree stair rail:	\$1,875.00
9215A Two-Station Assembly for 1-1/4" I.D. schedule 40 pipe for 35 degree stair rail:	\$1,875.00
9566A Two-Station Assembly for 1-1/4" I.D. schedule 40 pipe for 45 degree stair rail:	**\$2,125.00
9216A Two-Station Assembly for 1-1/2" I.D. schedule 40 pipe for 35 degree stair rail:	\$1,875.00
9567A Two-Station Assembly for 1-1/2" I.D. schedule 40 pipe for 45 degree stair rail:	**\$2,125.00
14111A Two-Station Assembly for 1-1/2" OD x 1/8" wall tubing for 35 degree stair rail:	\$1,875.00

Arc-Fit Angular Custom Assemblies to fit #75-A Housings:

Equal or unequal fit-ups, up to 1-1/2" I.D. Pipe, 2" O.D. or for tube sizes or angles not listed above:	**\$2,125.00
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Arc-Fit Angular Custom Assemblies to fit #85-A Housings:

All #85-A Assemblies, equal & unequal fit-ups:	**\$3,495.00
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For larger sizes, please consult factory

ARC-SNUG & MITRE-SNUG TOOLING:

(Catalog page 5)

Arc-Snug Housings:

#400 Housing:	**\$1,295.00
#450 Housing:	**\$1,850.00
#455 Housing:	**\$2,145.00
#500 Housing:	**\$2,995.00

Arc-Snug Assemblies: (mild steel. For stainless, see Upgrades, below)

#400 Assemblies, tube or pipe sizes up to 1-1/4" O.D. or 1-1/4" square:	**\$2,995.00
#450 Assemblies, tube or pipe sizes up to 2" O.D. or 2" square:	**\$3,875.00
#455 Assemblies, tube or pipe sizes:	**\$4,475.00
#500 Assemblies, tube or pipe sizes up to 3" O.D. or 3" square:	**\$4,950.00

Arc-Snug Assembly Upgrades, (add to above prices):

Assemblies with Drain Hole, 1 st Station:	+ \$595.00
Assemblies with Drain Hole, 2 nd Station:	+ \$625.00
Material upgrade (for stainless steel notching applications):	+ \$625.00

****These items are made-to-order, 50% deposit required.
Replacement parts are available on Vogel tooling, please call for pricing.
Sharpening available for your Vogel tooling, please call for details.**

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PERF-ARC TOOLING

(catalog page 6)

Perf-Arc Model #627 - dimpled hole(s)

(up to 1-1/4" Round or Square tubing, up to 1/2" hole diameter.)

627-D Perf-Arc Unit, Dimpled hole, one wall only, incl. mounting holes for die set mounting	\$545.00
627-DK Perf Arc Unit, Dimpled hole, one wall only, keyed for press brake	\$645.00
627-DD Perf-Arc Unit, Dimpled hole, top & bottom wall, incl. mounting holes for die set mounting	\$825.00
627-DDK Perf-Arc Unit, Dimpled hole, top & bottom wall, keyed for press brake mounting	\$925.00
627 Perf-Arc, Replacement Punches (2-1/2" overall length)	\$95.00

Perf-Arc Model #637 - dimpled hole(s)

(up to 2" Round or Square tubing, up to 3/4" hole diameter.)

637-D Perf-Arc Unit, one wall only, incl. mounting holes for die set mounting	\$750.00
637-DK Perf Arc Unit, Dimpled hole, one wall only, keyed for press brake	\$850.00
637-DD Perf-Arc Unit, Dimples hole, top & bottom wall, incl. mounting holes for die set mounting	\$1,125.00
637-DDK Perf-Arc Unit, Dimpled hole, top & bottom wall, keyed for press brake mounting	\$1,225.00
637 Perf-Arc, Replacement Punches (Specify 3-1/8" or 3-3/8" overall length)	\$125.00

Perf-Arc Model #647 - dimpled hole(s)

(up to 3" Round or Square, up to 1" hole diameter.)

647-D Perf-Arc Unit, one wall only, incl. mounting holes for die set mounting	\$1,150.00
647-DK Perf Arc Unit, Dimpled hole, one wall only, keyed for press brake	\$1,295.00
647-DD Perf-Arc Unit, Dimpled hole, top & bottom wall, incl. mounting holes for die set mounting	\$1,450.00
647-DDK Perf-Arc Unit, Dimpled hole, top & bottom wall, keyed for press brake mounting	\$1,595.00
647 Perf-Arc, Replacement Punches (Specify 4-1/4" or 4-5/8" overall length)	\$150.00

Per-Arc Self-Contained Units - dimpled hole top, clean hole bottom

629, Perf-Arc Unit (up to Round or Square, up to 1/2" hole diameter)	\$1,625.00
629 Replacement Punches (Specify 2-7/16" or 3-1/16" overall length)	\$95.00
639, Perf-Arc Unit (up to 1-1/2" Round or Square, up to 3/4" hole diameter)	\$1,995.00
639 Replacement Punches (Specify 2-7/8" or 3-13/16")	\$125.00
649, Perf-Arc Unit (up to 2" Round or Square, up to 1" hole diameter)	\$2,725.00
649 Replacement Punches (Specify 3-3/4" or 5" overall length)	\$150.00

Notes About Piercing:

Capacity: Each Perf-Arc Tool is made for a specific tube size and hole size. 627 / 637 / 647 models can be easily changed to a new hole size by ordering replacement perforators. A new unit is needed to change tube size. 629 / 639 / 649 units require changing both the punch and lower die to change hole size. Unit replacement is recommended to change tube size.

Dimpled hole piercing is "as material flows". Factors that affect the amount of dimple include tube size & gauge, hole diameter, weld seam orientation, press speed, tooling sharpness and lubrication used. For this reason, we regret that we are unable to estimate or guarantee the amount of dimple that you may experience with the above tools.

Clean hole piercing requires a custom built mandrel-type piercing die, normally built in a two or four post die set.. In order to price this type of custom tool, please fax us a print of your part to: 630-562-1500, or email a PDF file to info@vogeltool.com, so we may review your application details and quote appropriate tooling.

Replacement Parts are available on all piercing tooling. Please call for pricing.
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CUT OFF DIES & MACHINES:

1P Cut Off Die, 3" stroke (incl. micro-switch stop ass'y, less inserts & blades):	\$9,525.00
1P Round Inserts, (up to 1" O.D.):	\$1,250.00
1P Square Inserts, (under 3/4" square):	\$1,450.00
1P Rectangle Inserts:	\$1,925.00
1P Blades:	From \$32.00 /ea.
Incutting of Die Inserts for parts less than 1-1/2" long (to above prices):	+\$350.00

2P Cut Off Die, (incl. micro-switch stop ass'y, less inserts & blades):	\$10,895.00
2LHP Cut Off Die, (incl. micro-switch stop ass'y, less inserts & blades):	\$8,995.00
2040 Cut Off Machine, (manual feed, incl. micro-switch stop ass'y, less inserts & blades):	\$58,925.00
2P Round Inserts, (up to 2" O. D.):	\$1,375.00
2P Square Inserts, (up to 1-1/2" square):	\$1,650.00
2P Rectangle Inserts:	\$2,050.00
2P Blades:	From \$32.00 /ea.
Incutting of Die Inserts for parts less than 2-1/2" long, (add to above prices):	+\$450.00

3P Cut Off Die, (incl. micro-switch stop ass'y, less inserts & blades):	\$16,500.00
3LHP Cut Off Die, (incl. micro-switch stop ass'y, less inserts & blades):	\$15,325.00
3060 Cut Off Machine, (manual feed, incl. micro-switch stop ass'y, less inserts & blades):	\$68,750.00
3P Round Inserts, (up to 2-1/4" O. D.):	\$2,395.00
3P Round Inserts, (up to 3" O. D.):	\$2,595.00
3P Square Inserts, (up to 2-1/8" square):	\$2,995.00
3P Rectangle Inserts:	\$3,500.00
3P Blades:	From \$55.00 /ea.
Incutting of Die Inserts for parts less than 3" long, (add to above prices):	+ \$500.00

4P Cut Off Die, (incl. micro-switch stop ass'y, less inserts & blades):	\$25,625.00
4LHP Cut Off Die, (incl. micro-switch stop ass'y, less inserts & blades):	\$18,550.00
4070 Cut Off Machine, (manual feed, incl. micro-switch stop ass'y, less inserts & blades):	\$84,725.00
4P Round Inserts, (up to 2-1/4" O. D.):	\$2,875.00
4P Round Inserts, (up to 3" O. D.):	\$2,995.00
4P Round Inserts, (up to 4" O. D.):	\$3,475.00
4P Square Inserts, (up to 2-13/16" square)	\$3,895.00
4P Rectangle Inserts:	\$4,500.00
4P Blades:	From \$55.00 /ea.
Incutting of Die Inserts for parts less than 4" long, (add to above prices):	+ \$650.00

6P Cut Off Die, (incl. micro-switch stop ass'y, less inserts & blades):	\$42,750.00
6LHP Cut Off Die, (incl. micro-switch stop ass'y, less inserts & blades):	\$32,975.00
6080 Cut Off Machine, (manual feed, incl. micro-switch stop ass'y, less inserts & blades):	\$116,500.00
6P Round Inserts, (up to 6" O. D.):	\$4,950.00
6P Square Inserts, (up to 3-7/16" square)	\$5,650.00
6P Rectangle Inserts:	\$5,995.00
6P Blades:	From \$80.00 /ea.
Incutting of Die Inserts for parts less than 4" long, (add to above prices):	+\$695.00

5827 Cut Off Die, (incl. micro-switch stop ass'y, less inserts & blades):	\$6,895.00
5827 Round Inserts, (up to 1-1/8" O. D.):	\$1,250.00
5827 Round Inserts, (up to 1-1/8" square):	\$1,395.00
5827 Standard Square Tubing Blades:	From \$45.00

**Replacement parts are available on all Vogel tooling. Please call for current pricing.
All cut off machines are available with fully automatic operation. Please contact us to discuss your requirements.
Most Cut Off Dies & Accessories on this page require a 50% deposit at time of order.**

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TUBING V-NOTCH TOOLING:

(catalog page 9)

206-AA 90 degree V-Notch Unit, (90 degree angle between):	\$5,825.00
206-AA 60 degree V-Notch Unit, (120 degree angle between):	\$6,995.00
206-AA 45 degree V-Notch Unit, (135 degree angle between):	\$6,995.00
207 90 degree V-Notch Unit, (90 degree angle between):	\$7,425.00
207 60 degree V-Notch Unit, (120 degree angle between):	\$9,250.00
207 45 degree V-Notch Unit, (135 degree angle between):	\$9,250.00

STRUCTURAL V-NOTCH TOOLING:

[Angle Iron & Flat Stock]

213 Angle Iron "V" Notch & Flat Stock Corner Notch Unit:	\$1,495.00
215 Angle Iron "V" Notch & Flat Stock Corner Notch Unit:	\$3,650.00
216 Angle Iron "V" Notch & Flat Stock Corner Notch Unit:	\$4,595.00

STRUCTURAL SHEAR TOOLING:

(catalog page 9)

221 Housing:	\$895.00
221-RS Rod Shear Insert:	\$895.00
221-FS Flat Shear Insert:	\$875.00
221-AS Angle Shear Insert:	\$875.00
221-CS Channel & Special Shapes Insert:	P.O.R.

222 Housing:	\$1,395.00
222-RS Rod Shear Insert:	\$1,625.00
222-FS Flat Shear Insert:	\$1,495.00
222-AS Angle Shear Insert:	\$1,495.00
222-CS Channel & Special Shapes Insert:	P.O.R.

223 Housing:	\$1,795.00
223-RS Rod Shear Insert:	\$2,195.00
223-FS Flat Shear Insert:	\$1,995.00
223-AS Angle Shear Insert:	\$1,995.00
223-CS Channel & Special Shapes Insert:	P.O.R.

PICKET FENCE TOOLING:

(catalog page 9)

PC75 Sharp Point Picket Fence Unit, (Complete for one tube size):	\$2,695.00
PC75 Sharp Point Changeover Tooling, (To convert above unit to a new size tubing):	\$450.00
PC75R Radius Point Picket Fence Unit, (Complete for one tube size):	\$2,995.00
PC75R Radius Point Changeover Tooling, (To convert above unit to a new size tubing):	\$475.00

35CHP Channel Piercing Unit:	\$1,495.00
75CHP Channel Piercing Unit:	\$3,775.00
THP Square Tube Piercing Die, (incl. heavy-duty springs for single-acting press use):	\$4,995.00
Picket Hole Stop Assembly, (fits 35CHP / 75CHP / THP units):	\$775.00

**Replacement parts are available on all Vogel tooling. Please call for current pricing.
Most products on this page require a 50% deposit at time of order.**

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PRESSES:

Hand Press, (price does not include housing or assemblies, see page 2):

#1400 Hand Press, accepts #35 Housing & Assemblies only - sold separately	\$495.00
#1405 Hand Press Stand:	\$225.00
#1410 Hitch Mount:	\$195.00
#1415 Leg Kit for Hitch Mount:	\$95.00

Air Press, (price does not include housing or assemblies, see page 2):

#1401 Air Press less Foot Valve, accepts #35 Housing & Assemblies only - sold separately	\$2,450.00
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Hydraulic Power Units, (prices do not include housing & tooling):

CSP 15-SA Hydraulic Power Units, accepts #35 Hsg & Assy's only - see pg. 2, (110V, w/ foot switch):	\$2,895.00
CSP 25-SA Hydraulic Power Units, (110V, w/ foot switch): accepts #35, #75 Housings, #75-A Angular Housing, Picket Fence Tooling & Triple Housing Turntable,	\$3,350.00
CSP 25-DA Double Acting Hydraulic Power Units, for limited custom applications(110V, w/2 foot switches):	\$5,675.00
CSP 25-DA Double Acting Heavy Duty Hydraulic Power Units, for limited custom applications (440V 3phase, specify two foot switches or dual palm buttons):	\$10,250.00

Hydraulic Power Unit Options:

201-A Punch Press Adaptor, (for mounting Arc-Fit #35 housing in CSP-25 units):	\$95.00
75-AAS Spanker Bar, (required with Arc-Fit Angular tooling):	\$95.00
CSP-HT Hand Truck for Cage-Style Power Units:	\$695.00
CSP Triple-Housing Turntable, (incl. (3) #35 Housings, Assemblies sold separately, see page 2)	\$995.00

ABRASIVE BELT COPER:

(catalog page 7)

Linder's ABC Abrasive Belt Coper, (complete machine, incl. 1 belt, 1 spindle; pls. specify):	\$3,500.00
Additional Spindles, up to 2" OD	\$100.00
Additional Spindles, up to 3" OD	\$135.00
Additional Spindles, over 3" OD	\$170.00
Additional 4"wide x 132" x 36 Ceramic Grit Belts	\$23.50 /ea.
Additional 5"wide x 132" x 36 Ceramic Grit Belts	\$27.50 /ea.

Linder's complete unit & spindles is F.O.B. Minnesota.

TUBE ENDFORMING MACHINE:

(Catalog pg. 8)

This machine is discontinued and no longer available

Replacement parts are available on all Vogel tooling. Please call for current pricing.
End Forming machines and some other products on this page require a 50% deposit at time of order.

Vogel Tool & Die, Division of T-E-S Tube Equipment, Inc.
Prices effective 1/1/2009

(630) 562-14000 / www.vogeltool.com

Popular Arc-Fit Assemblies to fit the #35 Housing

Pipe Assemblies To notch pipe to fit same size x 90°				
Pipe Size	OD	Schedule	Wall	Assembly Number
1/2"	.840"	5	.065"	10771A
		10	.083"	9843A
		40	.109"	9200A
		80	.147"	10844A
3/4"	1.050	5	.065"	11615A
		10	.083"	10024A
		40	.113"	9201A
		80	.154"	9831A
1"	1.315"	5	.065"	11576A
		10	.109"	9322A
		40	.133"	9202A
		80	.179"	9357A
1-1/4"	1.660"	5	.065"	9976A
		10	.109"	9659A
		40	.140"	9203 (Mild Steel)
		40	.140"	9203A (Stainless)
		80	.191"	9378A
1-1/2"	1.900"	5	.065"	9526A
		10	.109"	9315A
		40	.145"	9204 (Mild Steel)
		40	.145"	9204A (Stainless)
		80	.200"	9280A
2"	2.375"	5	.065"	10132A
		10	.109"	9420A
		40	.154"	9205 (Mild Steel)
		40	.154"	9205A (Stainless)
		80	.218"	9221A

Note:

This page lists our "standard" Arc-Fit assemblies to fit the #35 Housing. Every year we make hundreds of custom assemblies. Examples of custom assemblies include:

- One size tube or pipe notched to fit a different size
- Tube or pipe notched to fit another with a drainhole, to assist when galvanizing or powder coating
- Special shape slots or V-notches
- Non-standard sizes, such as metric tubing
- Square tubing to fit rounds

Custom assemblies typically require approx. 4 weeks manufacture time. To obtain a quote for your specialized notching application, simply email or fax a sketch of what's required to:

Fax: 630-562-1500
Email: info@vogeltool.com

Tube Assemblies To notch tube to fit same size x 90°			
Tube Size	Gauge	Wall	Assembly Number
3/4"	18	.049"	9407A
	16	.065"	9305A
	14	.083"	9708A
	11	.125"	10436A
7/8"	18	.049"	9237A
	16	.065"	9264A
	14	.083"	9263A
	11	.125"	9696A
1"	18	.049"	9272A
	16	.065"	9242A
	14	.083"	9262A
	11	.125"	9905A
1-1/8"	18	.049"	9467A
	16	.065"	9359A
	14	.083"	9222A
	11	.125"	10629A
1-1/4"	18	.049"	9574A
	16	.065"	9219A
	14	.083"	9238A
1-3/8"	11	.125"	9380A
	18	.049"	10052A
	16	.065"	9611A
	14	.083"	9274A
1-1/2"	11	.125"	11037A
	18	.049"	10802A
	16	.065"	9269A
1-5/8"	14	.083"	9350A
	11	.125"	9351A
	18	.049"	9454A
	16	.065"	9233A
1-3/4"	14	.083"	9517A
	11	.125"	9240A
	18	.049"	10794A
	16	.065"	9255A
1-7/8"	14	.083"	9456A
	11	.125"	10113A
	18	.049"	11602A
	16	.065"	9513A
2"	14	.083"	9553A
	11	.125"	9694A
	18	.049"	11496A
	16	.065"	9270A
2-1/4"	14	.083"	9384A
	11	.125"	9229A
	18	.049"	11614A
	16	.065"	9458A
	14	.083"	9790A
	11	.125"	10911A

Vogel Tool & Die, Division of T-E-S Tube Equipment, Inc. Terms, Conditions of Sale and Warranties

This acknowledgment for sale and delivery of, or quote for, parts, tooling, and/or machinery and equipment. No contract exists until accepted by Vogel Tool & Die (A Division of T-E-S Tube Equipment, Incorporated) (hereinafter VTD Division and / or Seller) in writing via a VTD Division acknowledgment. If a contract exists, it shall be deemed executed in the State of Illinois, in the county of DuPage, and shall be deemed to include the Terms and Conditions of Sale set forth herein, whether or not the same are incorporated by reference or otherwise and regardless of any provisions contained in any other document relating to the sale. If these "Terms, Conditions of Sale and Warranties" do not appear on or are in conflict with Buyer's purchase order the "Terms, Conditions of Sale and Warranties" of the Seller will prevail. Buyer's acceptance of these "Terms, Conditions and Warranties" shall be conclusively presumed from Buyer's failure to state expressly his objections in writing at the time Buyer transmits his order, or sends a deposit to Seller. This contract shall be construed according to the laws of the State of Illinois. If any subsequent changes are made in methods or designs, the Seller reserves the right to revise prices and delivery if necessary.

1. SECURED PARTY: "Seller", as used in the Agreement, is intended to mean "Secured Party", and "Buyer", as used in this Agreement, is intended also to mean "Debtor", as defined in the Uniform Commercial Code.
2. CREDIT AND TERMS OF PAYMENT: Terms of payment shall be in accordance with the printed or typed terms on the VTD Division acknowledgment. Accounts will be opened only with firms or individuals with approved credit. Terms of Payment on standard stocked items *subject to credit approval* are as follows: a discount of 2% is allowed on invoices paid within 10 days of date of invoice, the net is due in 30 Days. [A 2% discount is NOT available on deposits, prepayments, progress payments, COD shipments, credit card payments or accounts with other outstanding past-due invoices.] It is our policy to request a deposit on custom equipment, special modifications to standard equipment, and a deposit plus progress payments on large machines. If requested, Seller can issue an invoice for deposits and progress payments. These invoices are due immediately upon receipt. Any delay in receiving payment, whether invoiced or not, will cause Seller to stop work on the order, thus extending the delivery date, or subjecting the order to possible cancellation (see #4 CANCELLATION and RETURN POLICY). The agreed price herein is based upon the Buyer's agreement to accept the delivery of all of the ordered merchandise at the time of completion. Failure of the Buyer to accept delivery at time of completion will not relieve the Buyer of any obligation for payment. Any calculations of terms for final payment will be calculated from the date the Buyer is advised that the item is ready for shipment. Items held for more than two weeks will subject Buyer to storage charges which are due in full within 10 days from date of the invoice. Failure of the Buyer to make payment within said time shall give Seller the option to, cancel any balance of the order, liquidate the material or equipment and invoice the Buyer for any shortage from that owed. Any extension of credit by Seller beyond the terms of payment specified herein, shall be subject to a service charge of one and one-half percent (1½%) per month. In the event Seller is required to employ a collection agency or an attorney to enforce collection, Buyer agrees to pay all of Seller's fees, costs, and expenses, including attorney's fees. All customers are invited to make an appointment to visit us to review progress on any die or machine which has had any advance payment. Returned checks are subject to a *minimum* of a \$25.00 NSF fee and may affect future credit terms with VTD Division.
3. QUOTATIONS: Lead times listed in quotes are estimates only. When the order is placed, it may be placed on hold, pending receipt of certain required items such as a deposit and / or material samples. Once any order requirements, as listed on the order acknowledgment are satisfied, the actual manufacture time may be affected by the current workload, available man-hours and the availability of raw materials and supplies. Delivery is contracted through third party transportation firms who may or may not guarantee shipping times. Typographical and clerical errors are subject to correction. Until an order is accepted by Seller (by VTD Division acknowledgment), quoted prices are subject to change without notice. All quotations, unless otherwise stated, are for immediate acceptance. Unless called for by customer's specifications, prices quoted for production parts do not include deburring. When Buyer's order ships, VTD Division reserves the right to invoice any amount, regardless of quoted price.
4. CANCELLATION POLICY: Orders may be canceled by Buyer or deliveries deferred only upon the condition that the Buyer assume immediate liability and make payment to the Seller for: (1) All work completed at the unit price, (2) work in process on the basis of the percentage of completion thereof times the order unit price, (3) raw material and / or purchased items whether received by Seller or covered by commitments made by Seller, (4) unamortized tooling, engineering and other cancellation charges incurred on the basis of cost to the Seller plus handling and overhead charges. Cancellation charges will be estimated and billed at the time of cancellation or deferment. Final adjustments for cancellation will be made and invoiced or credited within 30 days of cancellation. Seller reserves the absolute right to cancel the contract (1) upon breach of contract by the Buyer, (2) upon failure by the Buyer to make any payments required by this contract, (3) upon insolvency or bankruptcy of the Buyer, (4) if the Seller has good faith doubt to the Buyer's ability to pay in accordance with stated terms of payment.
5. RETURN POLICY - No items may be returned without prior written authorization from Seller and signed by an officer of the company. All items must be returned freight prepaid unless prior authorization has been given by Seller. If item is ordered in error by customer and is unused, Buyer will be credited purchase price, less freight charges and less a 20% restocking charge. Equipment that is custom, to suit the Buyer's specific application, or any item not normally stocked by VTD Division, is not returnable. However, at Seller's discretion, after reviewing and carefully inspecting the possibility of resale, some percent of credit might be allowed by Seller.
6. QUANTITIES: All quotations for fabricated production parts are based on Buyer's accepting over-run or under-run on each individual item not exceeding Ten (10%) percent of quantities ordered. Where closer control of quantity is required, special arrangements must be made.
7. WARRANTY: Seller warrants that the merchandise to be manufactured under the terms of this contract will be free of defects in workmanship and material for sixty days from the date of shipment, and that such merchandise conforms to contract specifications, provided the defective part is returned to Seller within ten days after failure of the defective part or equipment. This warranty is made in lieu of all other warranties, express or implied including, without limitation, any implied warranty of merchantability or fitness for any particular purpose. Equipment must have been properly installed, maintained and used under normal conditions in accordance with the instructions of Seller. Warranty extended to original purchasers only, and Seller has sole right to determine whether defective part shall be repaired or replaced. Purchased parts such as cylinders, valves, push buttons, motors, etc. are covered by the manufacturer's Warranty. Normal wear on parts such as cutting members, is specifically excluded from warranty as is breakage of those parts because of inadequate or improper sharpening or lubrication. Under NO conditions will Seller be responsible for downtime, loss of good will, or consequential damages. No parts, whether under warranty or not, may be shipped to Seller without prior authorization. Any authorized return shipment must be via the lowest cost method unless authorized by Seller. *NO WARRANTIES*, other than those specifically set forth herein or modifications of contract, shall be binding on either party unless in writing signed by the party to be charged, and no acts or conduct on the part of the Seller or any of its representatives shall constitute a waiver of any of the terms of this contract. Warranty claims will not be considered for Buyers with accounts that are past-due contract payment terms.
8. RISK OF FREIGHT LOSS & FREIGHT CLAIMS: Risk of loss or damage from the time of shipment is assumed by the Buyer. Unless otherwise specified by Buyer, Seller will select a regular insured commercial freight carrier and will add all costs for freight and insurance to the invoice. All packages and shipping containers must be inspected for damage upon arrival at Buyer's plant. Any damage must be noted on the freight papers and reported immediately to the freight carrier. The damaged container must be kept in order to make an insurance claim. Seller recommends photographs of damaged containers and / or merchandise to assist in documenting the extent of the loss or damage. Failure of the Buyer to fully document and report any damaged and/or missing parts at the time of receipt may cause the freight carrier to reject the claim leaving the Buyer fully responsible for the loss.
9. CLAIMS: All complaints or claims for incorrect counts or claims for nonconformance to specifications must be made to Seller, in writing, within six days from date of shipment. Claims must specify in detail, the weights found in the shipment, including tare, and the method used in arriving at a count of the parts. Unless such claim is made within the time set forth, the merchandise shall be deemed to have been delivered in satisfactory condition and in accordance with specifications and the terms of this contract. Buyer shall afford Seller prompt and reasonable opportunity to inspect merchandise as to which any claim is made. The liability of the Seller for any cause whatsoever shall be limited to the repair or replacement of any defective merchandise. If such claim is sustained and material furnished is not as ordered to the satisfaction of both parties, the Seller shall repair, replace, credit, or complete the order (for production parts; within the limitation of No. 5-Quantities). Under no circumstances will the Seller be liable for damages or any claims for consequential damages, downtime, loss of good will, or expense involved in fabrication done on production products. Seller will not allow claims for defective goods on those parts further processed by the Buyer and resulting in change of either dimensions or characteristics from parts as ordered.
10. DELAYS: Seller shall not be liable for failure to deliver or delays in delivery occasioned by causes beyond Seller's control, including without limitation, fire, flood, labor disputes, act of public enemy, act of governmental authority, shortage or increase of raw materials, failure to maintain factory production schedules, acts of God, machinery breakdowns, or delays of carriers or suppliers. In the event of any delay in delivery due to such causes, unless otherwise agreed, the time for delivery shall be deemed extended. Delayed orders may be canceled by Buyer under the terms described in #4 CANCELLATION and #5 RETURN POLICY.
11. SHIPMENT: In ordering, the Buyer should state explicitly the method of shipment preferred and, in the absence of shipping directions, the Seller will use discretion, forwarding by U.P.S. or similar carrier's ground service. Shipments will be insured at Buyer's expense.
12. PACKAGING & PAINT: Unless specifically stated to the contrary, quotations are made and orders are accepted for delivery as fast as manufactured by partial shipment packed in bulk, for fabricated parts, and packed in suitable crates or corrugated boxes for tooling parts. Machines are normally shipped uncrated without skids. Crates, skids, or export packaging is an extra charge and can be quoted. WHERE CHARGE IS MADE FOR DRUMS & SHIPPING CONTAINERS, THEY MUST BE RETURNED PREPAID WITHIN 30 DAYS IN GOOD CONDITION FOR FULL CREDIT. All products are painted VTD Division's standard colors. Special paint can be quoted, advise prior to ordering.
13. PATENTS: It is not the intention of the Seller to manufacture any product which is an infringement of a patented article. Where Buyer supplies specifications for parts to be made by VTD Division, or where VTD Division makes Tools, Dies or other equipment to produce such parts, it is agreed that the Buyer will defend and hold harmless the Seller from any and all expense involved in any claims for damages from infringements of patent by the manufacture of such parts or the manufacturer of equipment to produce those parts.
14. ENGINEERING CONSIDERATIONS: Where a die (or machine or parts which will require insertion of parts cutoff or supplied by other suppliers) is constructed, actual production SAMPLES must be supplied for fit-up or try-out purposes. Where dies are going to be used in HYDRAULIC PRESS, PUNCH PRESS, IRONWORKER, or machine, Buyer must supply Seller with all information concerning SHUT HEIGHT, STROKE, TONNAGE, ADJUSTMENTS, CLEARANCES - left to right and front to back, the size and position of all shank holes, rams, bolster plate holes, frame parts and any other obstructions. Note: Hydraulic Presses usually cannot be used for a die where loading is considerably off center. Where a machine or die requiring ELECTRICITY OR AIR is to be constructed, Buyer must advise Seller of the STANDARD VOLTAGES available in its plant and the pressure and AVAILABLE CFM of its compressor. If not supplied Seller will assume that buyer has sufficient available CFM at a minimum of 100 PSI to handle the job.
15. DESIGN: All detailed blueprints of tools are considered proprietary property of VTD Division, and if copies are desired, should be negotiated PRIOR to ordering. VTD Division GRANTS NO RIGHTS to Buyer for manufacture or reconstruction of proprietary assemblies or components thereof whether or not the assemblies or components are covered by one of VTD Division's patents. All prints and drawings furnished at any time by Vogel are for maintenance and repair only. VTD Division reserves all rights in equipment design and methods of utilization thereof, except those granted to Buyer by operation of law.
16. PRODUCTION ESTIMATES: Production estimates are estimated only, based on our understanding of the material handling and equipment operation. Seller makes NO GUARANTEE that actual production rates achieved in Buyer's plant will meet the estimates.
17. TRAINING AND OR INSTALLATION: Unless otherwise stated training and/or installation ARE NOT INCLUDED in prices quoted. However, both are available either in the field or at our factory. If interested please request a quote.
18. TOLERANCES: All dimensions must be limited by specified tolerance. When not specified, it is understood that commercial tolerances apply. When Buyer purchases pursuant to his own specification, the Seller will not be responsible for the design and fitting of parts: the conforming of sample parts on Seller's product to the specified tolerances is sufficient evidence as to the correctness of the product. Where tolerances on production parts are closer than commercial limits, or when dimensions cannot be readily gauged with micrometers, such gauges may be furnished by Buyer or supplied by Seller at an extra charge.
19. INSPECTION: Inspection of production parts by the Seller is made on the percentage basis only. If 100% inspection is required, it is a Buyer's expense, and only such parts proved not as ordered by the Buyer's inspection may be returned with a claim for repair, credit, or replacement as covered by No. 8-CLAIMS and No. 5-QUANTITIES.
20. SAFETY: Seller is concerned about the safety of Buyer's employees and, therefore, adds guards, either as a standard or as an option, on all machines which it builds. However, it is impossible or impractical, in most cases, for Seller to build guards for dies which will be used in a punch press. These require that the press, itself, be guarded. Note: Federal Law Provides:
"IT SHALL BE THE RESPONSIBILITY OF THE EMPLOYER TO PROVIDE AND INSURE THE USAGE OF "POINT OF OPERATION GUARDS"
OR PROPERLY APPLIED AND ADJUSTED POINT OF OPERATION DEVICES ON EVERY OPERATION PERFORMED ON MECHANICAL POWER PRES."
- Seller does not warrant that any safety devices or features supplied with its equipment meet the requirements of any local, state, federal, or foreign laws or regulations, including those issued under OSHA. Should the Buyer require any additional devices or features installed by Seller, they should be specifically identified, and VTD Division will amend its quotation accordingly.
21. INDEMNITY: Buyer shall use and shall require its employees to use all safety devices, guards, and proper safe operation procedures as set forth in manuals and instructions furnished by Seller and / or added by Buyer as required by the Occupational Safety and Health Administration (OSHA) and any other applicable regulations. Buyer shall not remove or modify any such device, guard or warning sign. Buyer shall notify Seller promptly, and in any event within seven days, of any accident or malfunction involving Seller's product which results in personal injury or damages to property and shall cooperate fully with Seller on investigating and determining the cause of such accidents or malfunctions. Buyer agrees to indemnify and save Seller harmless from any claim arising from such accident or malfunction.
22. COMPLIANCE WITH LAWS: Seller agrees to comply with all applicable State, Federal and Local Laws, Rules and Regulations and Fair Labor Standards Act of 1938 as amended. Executive Order 11246 Equal Employment Opportunity Act as amended.
23. SEVERALTY: Each provision of this contract is severable from every other provision, and if any provision should be held to be unenforceable or void, it shall be treated as if deleted here. The remainder of this contract shall be enforced according to its terms.
24. SECURITY INTEREST: This agreement is intended to and does create, and Buyer grants to Seller, a security interest in the merchandise herein above described to secure the performance or payment of the obligations of the Buyer to Seller hereunder. Seller shall have the right in addition to all others it may possess, at time, for credit reasons, to withhold shipments, recall goods in transit, and retake and repossess all tooling, parts, and goods which have been delivered to the Seller and for these purposes Seller retains title until he has received payment in full. Buyer hereby represents and warrants, in writing, that it is solvent within the meaning of the Federal Bankruptcy Law and can pay its debts as they become due and in the event of misrepresentation of said solvency Seller will be entitled to reclamation of all goods not paid for.
25. CONTRACT: This contract constitutes the entire understanding and agreement between Seller and Buyer with regard to all matters herein. There are no other agreements, conditions or representations, oral or written, express or implied, with regard thereto. This contract may be amended only in writing, signed by both Seller and Buyer.
26. BINDING CONTRACT: This Agreement shall be binding and constitute a valid contract upon both parties when a written order or deposit is received, accepted, and approved by office of VTD Division.
27. VENUE: This contract is made in DuPage County, Illinois which, at Seller's option, shall be the stipulated venue for the purpose of any litigation which may arise under its terms.
28. TAXES: All Federal, State, and Municipal Taxes now in effect hereinafter enacted that are applicable to this transaction shall be for the account of the Buyer, and if paid or required to be paid by the Seller, the amount thereof shall be added and become part of the price payable by the Buyer, and if not included in our original invoice, we reserve the right to invoice such tax as may be imposed at a later date and the Buyer shall pay this tax to VTD Division or directly to the government agency levying such a tax. Illinois Sales Tax will be added to the invoice for all purchase orders placed by Illinois Corporations or for all shipments within Illinois unless Buyer supplies Seller with proper documentation and BUYERS RESALE NUMBER or EXEMPTION CERTIFICATE.
29. CHANGES: Whenever possible, Seller will try to accommodate details, and modifications desired by our customers. However modifications that are above and beyond that originally quoted will be charged on a time and material basis.
30. FAIR LABOR STANDARDS ACTS: Seller hereby certifies that these goods were produced in compliance with all applicable requirements of Section 6, 7, and 12 of Fair Labor standards act, as amended, and of regulations and orders of the United States Department Of Labor issued under Section 14 thereof.
31. MINIMUM ORDER: The minimum individual order is \$25.00; the balance will be considered a service charge.
32. F.O.B.: Shipping Point, West Chicago, IL, unless otherwise noted. (Items and machines, not manufactured by Seller will be F.O.B. manufacturer or other distribution center)